Practice Assessment 2

Name:	**UAlbany** **E-Mail:**

Closed book/notes. No calculators allowed. Fill in **one** choice for each multiple choice question below. No explanation is required to be shown and no partial credit will be given.

1. (1 pt.) Dr. Medina is interested in studying the failure rate of a certain kind of car battery. Which of the following sampling methods leads to the least amount of sampling bias?

   ① He chooses the most recent 428 cars that had the battery installed.

   ② He selects every car that had the battery installed.

   ③ He selects a simple random sample of 813 cars with the battery installed.

   ④ All of the above will give the same amount of sampling bias.

2. (1 pt.) Which of the following is an example of bias in sampling?

   ① A study on college students' opinions of academic resources fails to include any freshmen.

   ② Mr. Lange's smartwatch tells him he walked 2.25 miles when he walked 2.19 miles.

   ③ 43% of individuals selected for participation in an opinion poll fail to respond.

   ④ All of the above are examples of sampling bias.

3. (8 pts.) Construct a stem-and-leaf plot for the data below. Include a key.

75	90	79	76	74	69	73	77